

CLAIMS

1. A method of targeting integration of a transgene comprising retrovirus-like nucleic acid into a eukaryotic genome, in which the genome is targeted by a restriction enzyme that bind nucleic acid and the transgene is introduced at the binding site,
5 wherein the endonuclease is specific to a site in an abundant rDNA locus and is fused to an integrase that mediates the introduction of the transgene.
2. A method according to claim 1, wherein the genome is human.
3. A method according to claim 1 or claim 2, wherein the integrase is a lentivirus integrase.
- 10 4. A method according to claim 3, wherein the integrase is a HIV-1 integrase.
5. A method according to any preceding claim, wherein the endonuclease is I-PpoI.
6. A fusion protein which comprises an endonuclease as defined in claim 1 fused to an integrase as defined in claim 1.
7. A fusion protein according to claim 6, which is of HIV-1 integrase and I-PpoI.